AMENDMENTS TO THE CLAIMS:

1. (currently amended) A method for producing hydroxylammonium salts by reacting nitrous oxide (NO) with a molar hydrogen surplus in <u>a reaction vessel in</u> an aqueous medium of strong mineral acids in the presence of a noble metal catalyst suspended on a carbon-based support at excess pressure up to 10 bar and temperatures up to 80°C, the hydroxylammonium salt being constantly removed from the reaction vessel, said <u>reaction</u> vessel being a stirred reactor with an agitator shaft and agitator blades attached to [[it]] <u>the agitator shaft</u> via a hub and bearing surface or support, characterized in that:

a gas inlet and distribution system is provided in [[the]] <u>a</u> lower part of the stirred reactor,

a disk agitator is placed immediately above the gas inlet and distribution system,

the <u>disk agitator comprising the</u> hub with <u>the</u> bearing surface or support of which comprising <u>with</u> angled, concave and tilted agitator blades that rotate <u>their</u> angled [[or]] <u>and</u> concave sides in [[the]] <u>a</u> direction of motion, and

a two-blade blade agitator is provided on the agitator shaft in [[the]] <u>an</u> upper part of the stirred reactor, [[its]] individual leaves <u>of the blade agitator</u> being offset like lamellas at an angle of 0 to 30°C to [[the]] <u>a</u> blade axis so that they constantly wet [[the]] <u>a</u> reactor cap when rotating.

- 2. (original) The method according to claim 1 wherein sulfuric acid at a 4 to 5-normal concentration is used as the strong mineral acid and the product is hydroxylammonium sulfate.
- 3. (previously presented) The method for producing hydroxylammonium salts according to claim 1 wherein hydrogen and NO are used at a molar ratio of 1.9 to 2.0 : 1.0.
- 4. (previously presented) The method for producing hydroxylammonium salts according to claim 1 wherein the suspended catalyst (including its support) is used in a liquid suspension at 7 to 50 g/l and a mean diameter of 30 to 80 pm.
- 5. (previously presented) The method for producing hydroxylammonium salts according to claim 1 wherein platinum is used as a noble metal catalyst at a concentration of 0.1 to 0.5 percent by weight in relation to its carbon support.
- 6. (currently amended) The method for producing hydroxylammonium salts according to claim 1 wherein [[the]] gases escape from an annular gas inlet and distribution system with an average gas bubble diameter of 5 mm to 6 mm and a gas speed of 7 to 30 m/sec.
- 7. (currently amended) The method for producing hydroxylammonium salts according to claim1 wherein 6 concave <u>and tilted</u> agitator blades are attached to the rotating hub of the disk agitator.

- 8. (previously presented) The method for producing hydroxylammonium salts according to claim 1 wherein wall baffles are arranged in the stirred reactor.
- 9. (currently amended) The method for producing according to claim 1 wherein the two-blade blade agitator in the top portion of the stirred reactor is placed at an angle of incidence of 45° to 90° in relation to [[the]] <u>a</u> liquid level in the reactor, wherein [[it]] <u>the blade agitator</u> consists of offset individual lamella-like leaves, and wherein <u>it has an the blade</u> agitator diameter [[of]] <u>is</u> 0.3 to 0.4 relative to the reactor diameter.
- 10. (currently amended) The method for producing hydroxylammonium salts according to claim 1 wherein [[the]] <u>a</u> blade height of the individual leaves of the blade agitator is 0.2 to 0.5 relative to <u>a diameter of</u> the blade agitator diameter.
- 11. (previously presented) The method for producing hydroxylammonium salts according to claim 1 wherein the disk agitator in the bottom portion of the reactor is operated at a peripheral speed of 5 to 15 m/sec.